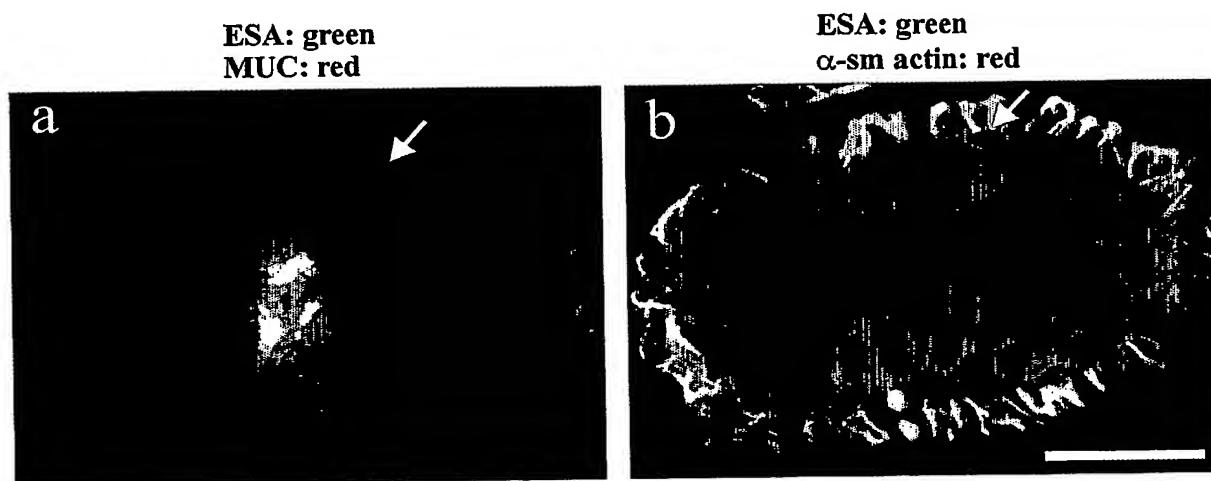


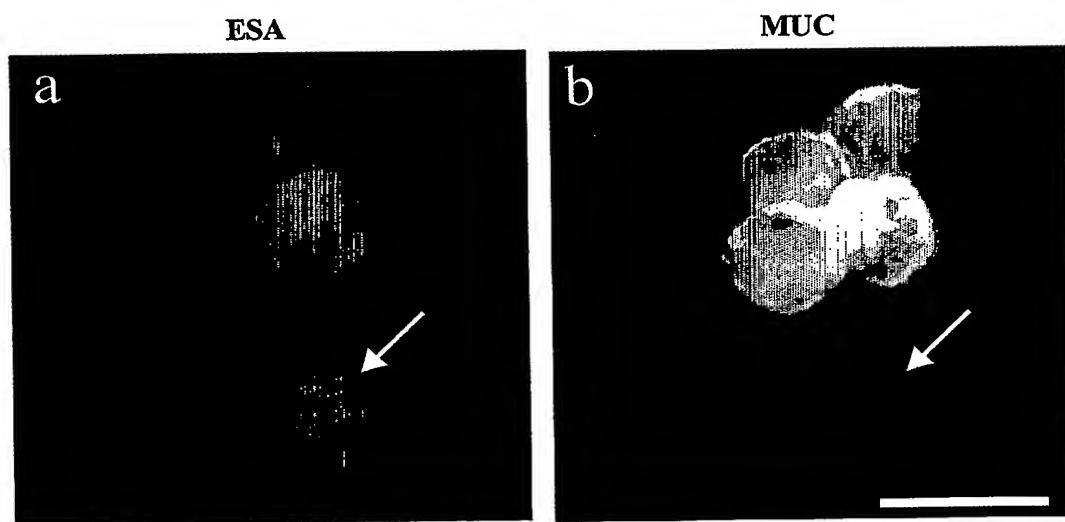
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*Identification of "suprabasal" luminal epithelial cells in the breast.**A. Suprabasal cells belong to the luminal epithelial lineage.*

Breast section

*B. A subset of cells within the luminal epithelial lineage is sialomucin-negative.*

Isolated cells



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Isolation, immortalization and characterization of luminal and suprabasal-derived epithelial cells.

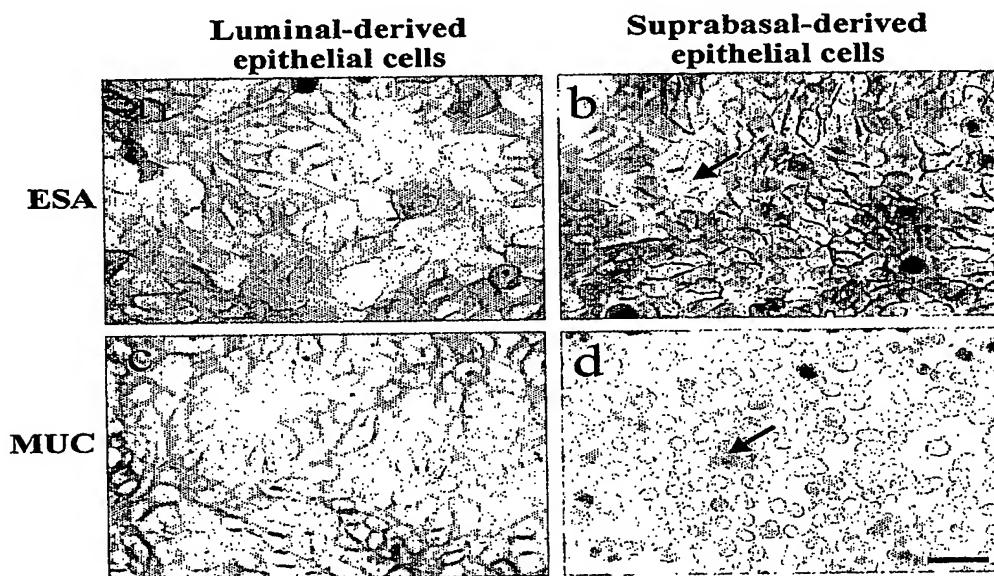
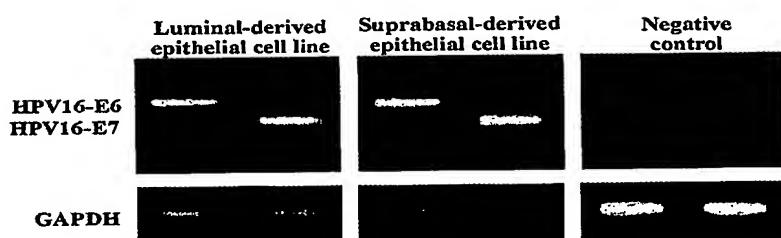
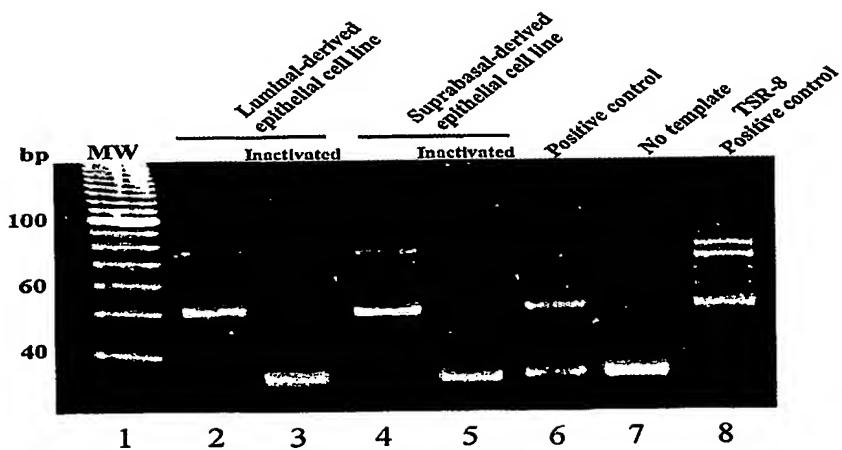
A.**B.****C.**

Fig. 2

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D. Both the luminal- and suprabasal-derived cell lines belong to the luminal epithelial lineage.

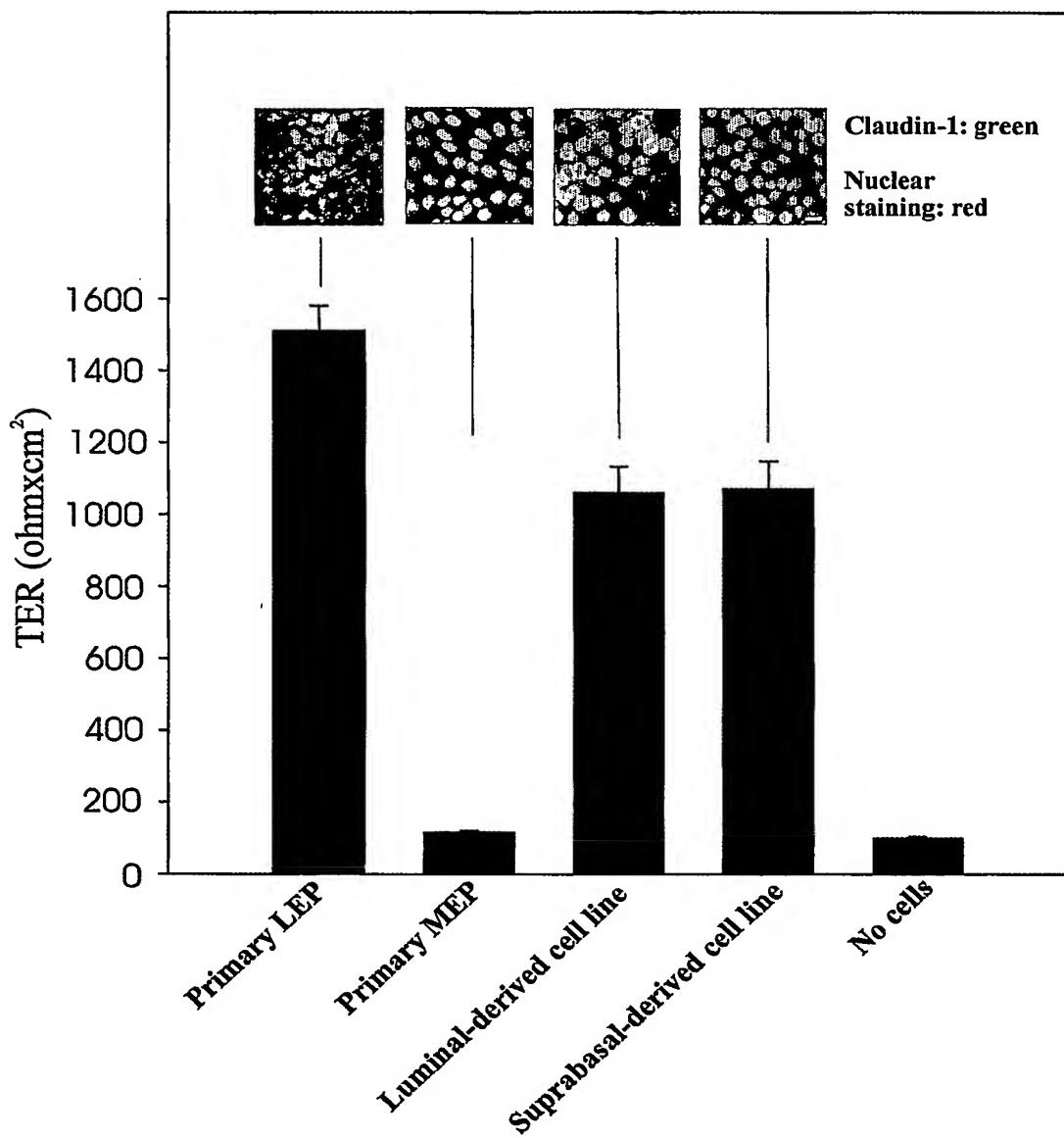


Fig. 2 (continued)

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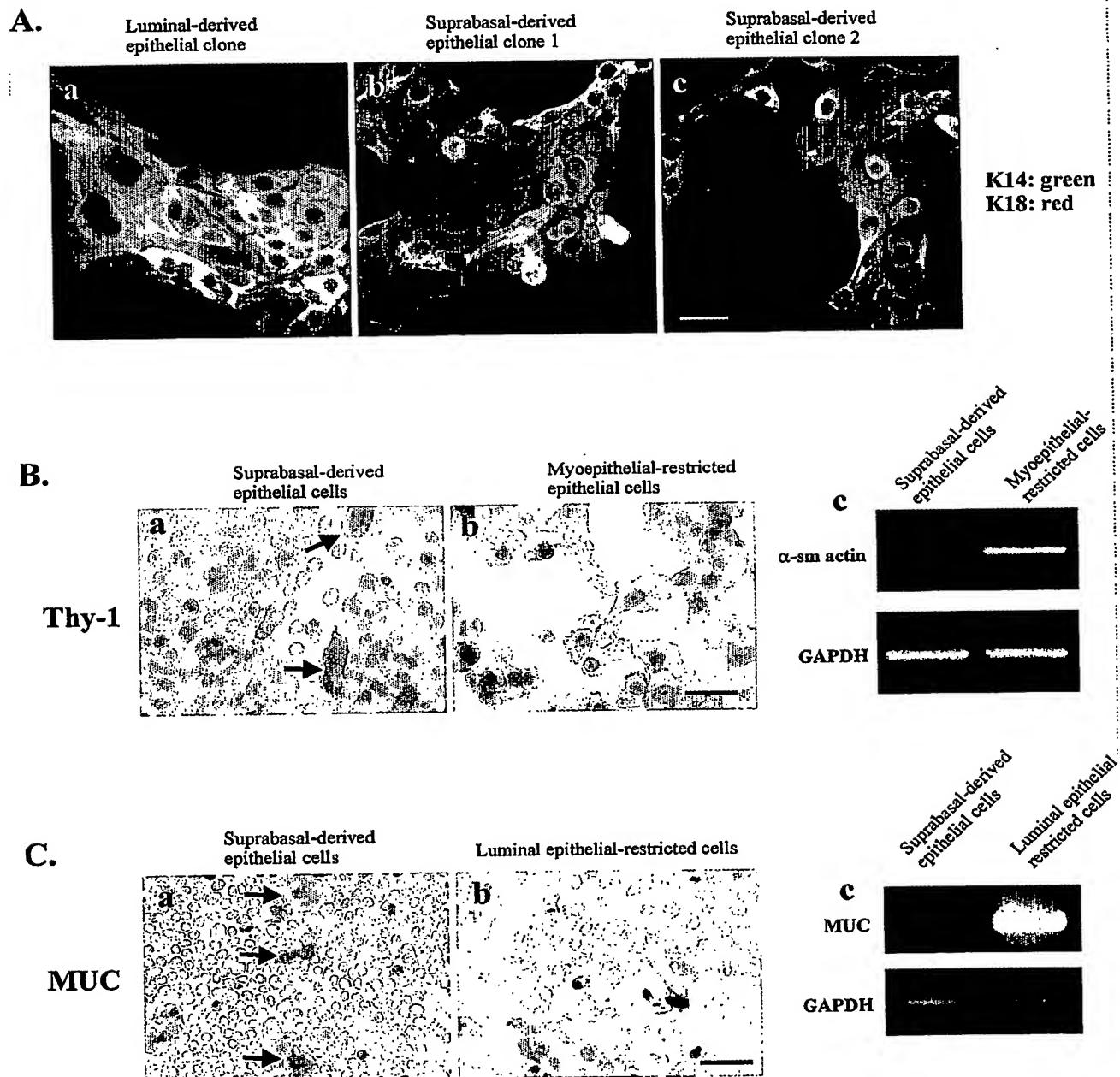
Evidence for multipotency in the suprabasal-derived epithelial cell line

Fig. 3

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Only suprabasal-derived epithelial cells give rise to terminal duct lobular units (TDLUs).

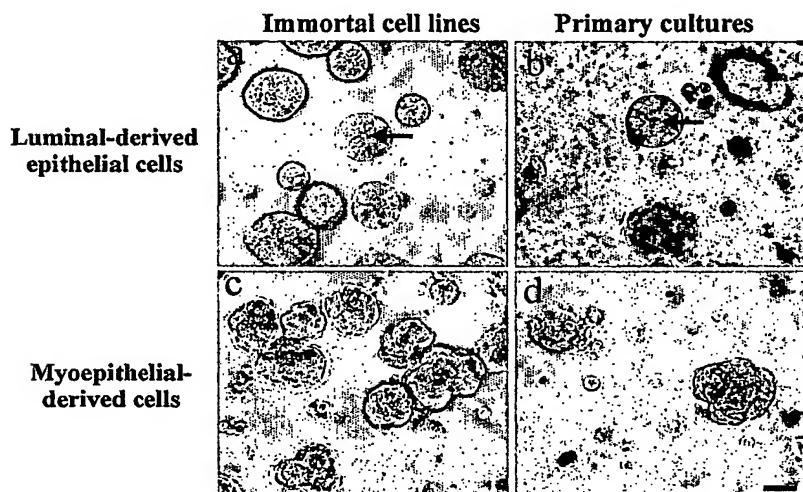
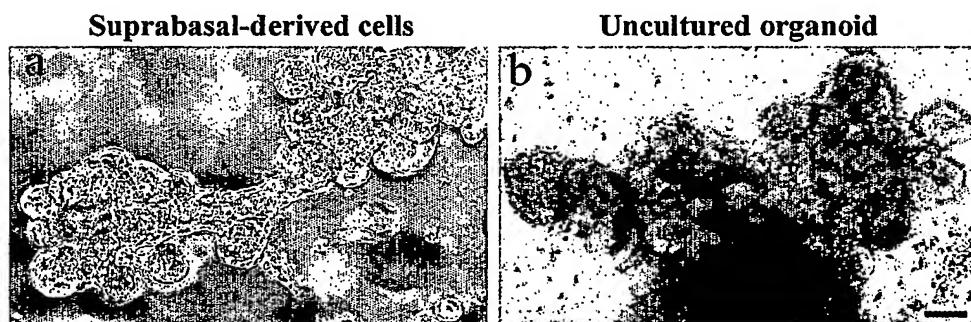
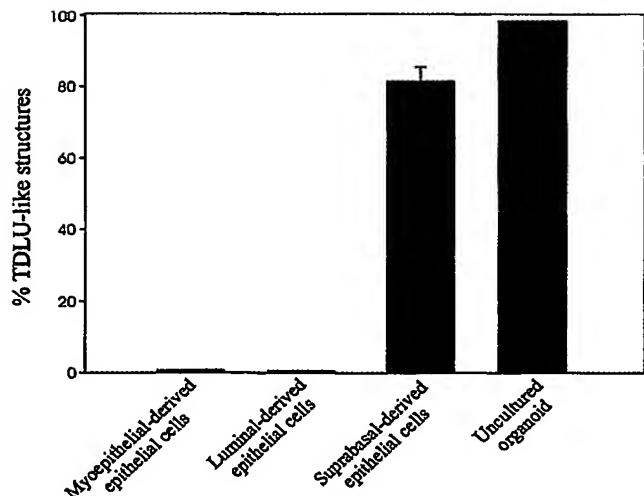
A**B****C**

Fig. 4

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D. Only suprabasal-derived epithelial colonies in a laminin-rich gel resemble TDLU *in vivo*.

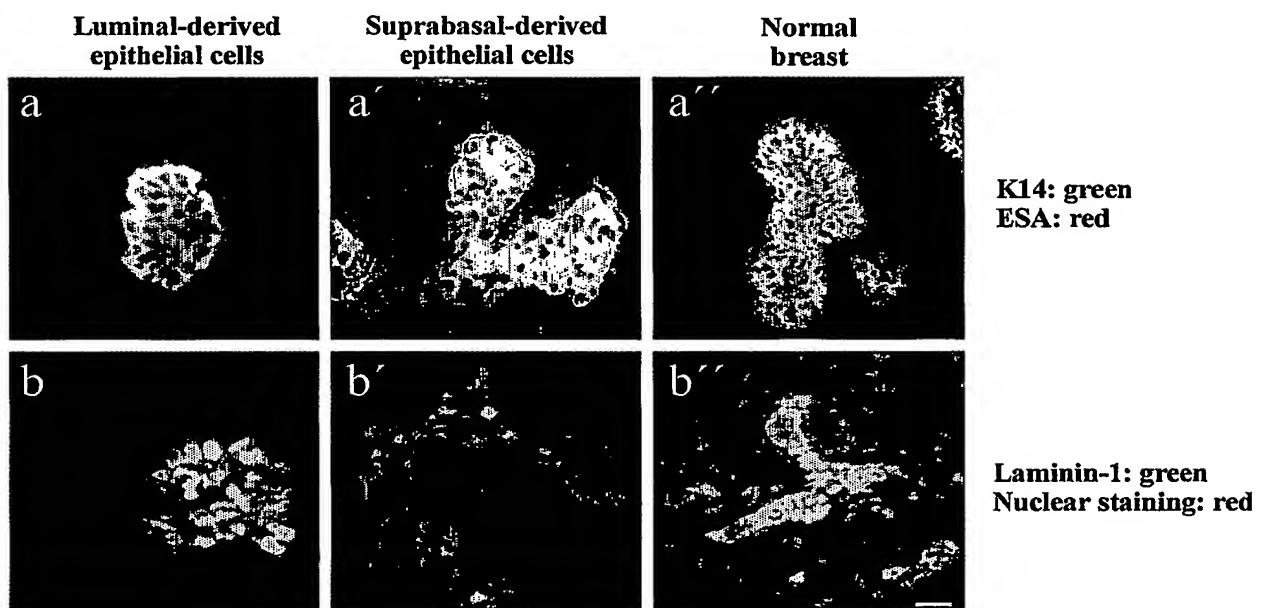


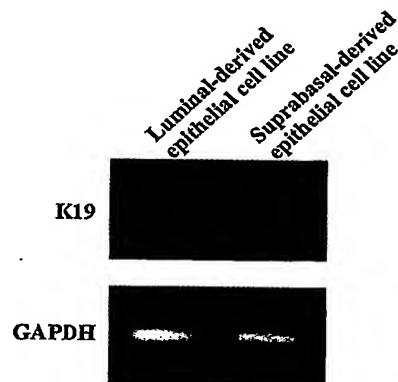
Fig.4 (continued)

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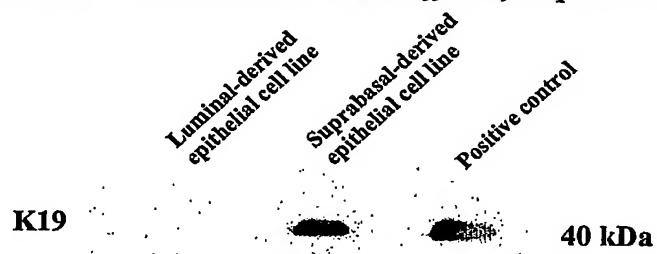
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The suprabasal-derived cells are keratin K19-positive similar to a subpopulation of cells in TDLU and neoplastic breast epithelial cells in vivo.

A. Luminal- and suprabasal-derived epithelial cells differ by expression of mRNA for keratin K19.



B. Luminal and suprabasal-derived epithelial cells differ by expression of protein for keratin K19.



C. Keratin K19 staining in cultures of luminal- and suprabasal-derived epithelial cells.

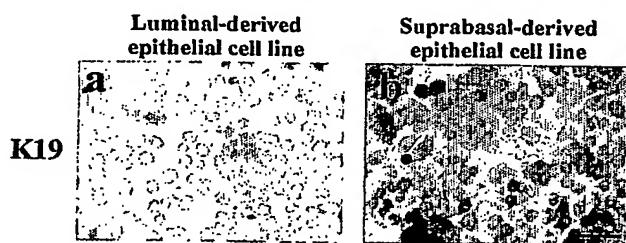


Fig. 5

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Keratin K19 staining in sections of normal breast tissue (TDLU) and infiltrating ductal carcinoma (IDC).

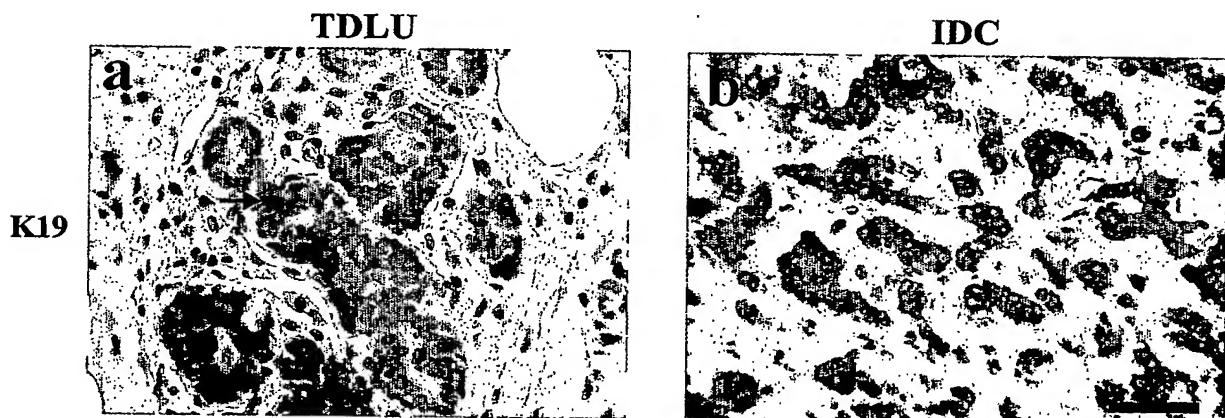
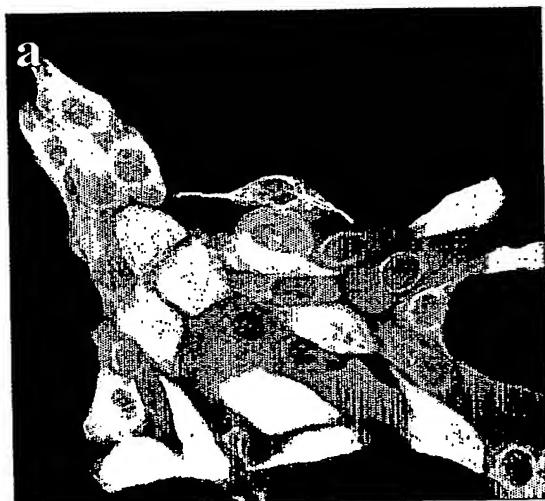


Fig.6 **BEST AVAILABLE COPY**

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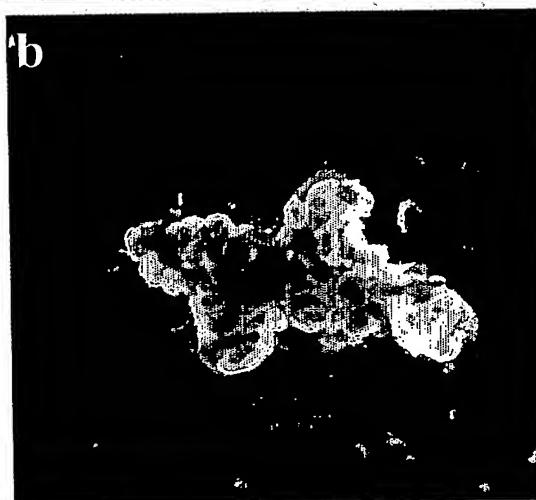
Clonal segregation of keratin K19-positive and K14-positive cells in two- and three-dimensional culture, and mouse implants of suprabasal-derived epithelial cells.

Clone in monolayer



K14: green
K19: red

Clone in
laminin-rich gel



K14: green
K19: red

Nude mouse implant



K14: green
K19: red

Fig. 7

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